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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,516	08/21/2003	Thomas C. Pederson	GP-301710	8899
7590 09/01/2005			EXAMINER	
CARY W. BROOKS			KERNS, KEVIN P	
General Motors	Corporation	•		•
	il Code 482-C23-B21		ART UNIT	PAPER NUMBER
P.O. Box 300			1725	
Detroit, MI 48265-3000			DATE MAILED: 09/01/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		<i>N</i> 2				
	Application No.	Applicant(s)				
Office Antique Commence	10/646,516	PEDERSON, THOMAS C.				
Office Action Summary	Examiner	Art Unit				
	Kevin P. Kerns	1725				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 A	<u>ugust 2003</u> .					
2a) This action is <b>FINAL</b> . 2b) This						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-52 is/are pending in the application.	r					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>1-52</u> are subject to restriction and/or €	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct		` ,				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) ☐ Acknowledgment is made of a claim for foreign</li> <li>a) ☐ All b) ☐ Some * c) ☐ None of:</li> <li>1. ☐ Certified copies of the priority documents</li> </ul>		-(d) or (f).				
2. Certified copies of the priority documents		on No				
3. Copies of the certified copies of the prior	• • • • • • • • • • • • • • • • • • • •	<del></del>				
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
		•				
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal P	atent Application (PTO-152)				
Paper No(s)/Mail Date	6)  Other:					

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## **DETAILED ACTION**

## Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

- I. Claims 1-20, drawn to a process that includes the step of forming a molded pattern from polystyrene beads and topically applied brominated compounds, with the brominated compounds comprising a brominated alkane.
- II. Claims 21-36, drawn to a process that includes the steps of topically applying a finely divided powder onto a plurality of polystyrene beads, pre-expanding the polystyrene beads to form a molded pattern and a lost foam casting mold, and pouring molten metal into the mold.
- III. Claims 37-51, drawn to a process that includes the steps of topically applying brominated compounds to a plurality of polymer beads and forming a molded pattern from the polymer beads.
- IV. Claim 52, drawn to a process that includes the step of topically applying a finely divided powder comprising brominated compounds including a carbon chain to a plurality of polymer beads, without forming a molded pattern.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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2. Applicant is advised that the reply to this requirement to be complete must

include an election of the invention to be examined even though the requirement be

traversed (37 CFR 1.143).

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dr. Kevin P. Kerns whose telephone number is (571)

272-1178. The examiner can normally be reached on Monday-Friday from 8:00am-

5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Kevin P. Kerns Kevin Kerns 8/30/05 Primary Examiner

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KPK kpk

August 30, 2005